Match-Up: Rotation Matrices

1	$\begin{pmatrix} -\frac{1}{2} & \frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & -\frac{1}{2} \end{pmatrix}$
2	$\begin{pmatrix} -\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2} \\ -\frac{\sqrt{2}}{2} & -\frac{\sqrt{2}}{2} \end{pmatrix}$
3	$\begin{pmatrix} \frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2} \\ -\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2} \end{pmatrix}$
4	$\begin{pmatrix} \frac{1}{2} & -\frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & \frac{1}{2} \end{pmatrix}$
5	$\begin{pmatrix} \frac{\sqrt{2}}{2} & -\frac{\sqrt{2}}{2} \\ \frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2} \end{pmatrix}$
6	$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$
7	$\begin{pmatrix} -\frac{\sqrt{3}}{2} & \frac{1}{2} \\ -\frac{1}{2} & -\frac{\sqrt{3}}{2} \end{pmatrix}$
8	$\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$
9	$\begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$
10	$\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}$

A	Rotation $90°$ anti-clockwise about $(0, 0)$
B	Rotation $45°$ anti-clockwise about $(0, 0)$
C	Rotation $180°$ about the origin
D	Rotation $120°$ anti-clockwise about $(0, 0)$
E	Rotation $300°$ clockwise about $(0, 0)$
F	Rotation $\theta°$ anti-clockwise about $(0, 0)$
G	Rotation $135°$ anti-clockwise about $(0, 0)$
H	Rotation $90°$ clockwise about the origin
I	Rotation $210°$ anti-clockwise about $(0, 0)$
J	Rotation $45°$ clockwise about the origin

1	2	3	4	5	6	7	8	9	10
D	G	J	E	B	A	I	C	H	F